FORM PTO-1390 (Modified) (REV. 01-2003) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE ATTORNEY'S DOCKET NUMBER											
,	•	ANSMITTAL LETTER TO THE UNITED STATES	820701-1315								
		DESIGNATED/ELECTED OFFICE (DO/EO/US)	Ų.S.	APPHGATION NO-GIF KNOWN)							
CONCERNING A FILING UNDER 35 U.S.C. 371											
INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE PRIORITY DATE CLAIMED											
PC	F/US2	004/038506 17 November 2004		17 November 2003							
TITLE OF INVENTION											
ENGINEERING ENZYMES THROUGH GENETIC SELECTION											
APPLICANT(S) FOR DO/EO/US: DOYLE, Donald F., SCHWIMMER, Lauren J., BAHAREH, Azizi											
		herewith submits to the United States Designated/Elected Office (DO	D/EO/	(US) the following items and other information:							
•		(2)									
1.	\boxtimes	This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.									
2.		This is a SECOND or SUBSEQUENT submission of items concer	ning a	a filing under 35 U.S.C 371.							
3.	\boxtimes	This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include									
		items (5), (6), (9) and (21) indicated below.									
4.		The US has been elected (Article 31).									
5.	\boxtimes	A copy of the International Application as filed (35 U.S.C. 371(c)(2)).									
	a.	is attached hereto (required only if not communicated by the In	ternat	tional Bureau).							
	b.	A has been communicated by the International Bureau									
	c.	is not required, as the application was filed in the United States	Rece	viving Office (RO/US).							
6.		An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).									
	a.	is attached hereto.									
	b	has been previously submitted under 35 U.S.C. 154(d)(4).									
7.		Amendments to the claims of the International Application under Pe		, , , , , ,							
	a.	are attached hereto (required only if not communicated by the l	nterna	ational Bureau).							
	b.	have been communicated by the International Bureau.									
	c.	have not been made; however, the time limit for making such a	mendi	ments has NOT expired.							
	d.	have not been made and will not be made									
8.		An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).									
9.		An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)). (Un	_	•							
10.		An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36									
		(35 U.S.C. 371(c)(5)).									
Items 13 to 23 below concern document(s) or information included:											
11.		An Information Disclosure Statement under 37 C.F.R. 1.97 and 1.93	Q.								
12.				iance with 37 CFR 3 28 and 3 31 is included							
13.	Ħ	An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. A preliminary amendment									
14.	H	An Application Data Sheet under 37 CFR 1.76.									
15.	\boxtimes	A substitute specification. (containing new set of claims for examination)									
16.		A power of attorney and/or change of address letter.									
17.	\Box	A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821-1.825.									
18.	\boxtimes	A second copy of the published international application under 35 U.S.C. 1.54(d)(4).									
19.	$\overline{\Box}$	A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).									
20. So Other items or information:											
International Search Report mailed 6 September 2005; Written Opinion of the International Searching Authority											
	September 2005; Copy of PCT Request Form PCT/RO/101 (4 pages); and Return Postcard										
			.,,								
				·							

U.S. APPALICA	TION NO 7	9693		ERNATIONAL APPLICATION US2004/038506	NO.		ATTORNEY'S DO 820701-1315	CKET NO.:
The following fees are submitted:								PTO USE
		ONLY						
21. 🛛	Basic nati	onal fee (37 CFI	R 1.492	2 (a)		\$300	\$300	
22. ≱⊠		ion Fee (37 CFR		(c)) y ISA/US or the interna				
preliminary examination report prepared by IPEA/US indicates all							\$	
	claims satisfy provisions of PCT Article 33(1(-(4)							
	All other	situations				\$200	\$200	
23.								
				US or the International	preliminary			
				y IPEA/US indicates all				
				cle 33(1)-(4)		\$0	\$	
				has been paid on the in		£100	6100	
				n International Searchir ared by an ISA other th		\$100	\$100	
				previously communicate				
						\$400	s	
	•					\$600	\$	
		TO	TAL OI	7 21, 22 and 23 =			\$600	
				awings filed in paper o				
				ance with 37 CFR 1.821	© or (e) or com	puter		
				m) (37 CFR 1.492(j)). sheets of paper or fract	ion thereof		s	
Total Sheets		ctra Sheets		er of each additional 50 or fr		F	3	
			thereo	f (round up to a whole numb	er)			
-10	00=	/50=			x\$250		\$	
Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or								
declaration at	\$130.00 for f fter the date o	urnishing any of the frommencement of	the nati	onal state (37 CFR 1.492(h)).	iin or		\$	
			NUMBER EXTRA	RATE				
Total claims		20- 20 =					\$	
Independent		4- 3 =		1 1 x \$200			\$200 \$	
Multiple Dependent Claims (check if applicable). + \$360								
TOTAL OF ABOVE CALCULATIONS =								
Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.								
SUBTOTAL =								
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the							\$	
earliest claimed priority date (37 CFR 1.492(i)).							\$	
TOTAL NATIONAL FEE = Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied								
by an appropriate cover sheet (37 CFR 3.28, 3.31) \$40.00 per property +								
TOTAL FEES INCLOSED =						\$400		
							Amount to be: refunded	\$
							Amount to be	\$
							charged	

10/579683 (AP20 Rec'd PCT/PTO 17 MAY 2006)

a. 🔲 Acl	A check in the amount of to cover the above fees is enclose.				
b. 🗖 Plea	Please charge my Deposit Account No. 20-0778 in the amount of \$400.00 to cover the above fees.				
	A duplicate copy of this sheet is enclosed.				
c. The over d. Fee car					
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.					
SEND ALL CORRESPONDENCE TO:					
	ayden, Horstemeyer	Signature C. Hour			
& RISLEY, L. 100 Galleria Pa Atlanta, Georg	arkway, Suite 1750	Heather C. Gorman			
		Name			
		42,389			
		Registration Number			
·		5117/05			
		Date			

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE AP20 Rec'd PG7/P10 17 MAY 2006

In re:

For:

DOYLE, Donald, et al.

ENGINEERING ENZYMES THROUGH GENETIC SELECTION

CERTIFICATE OF EXPRESS MAIL

Mail Stop PCT (DO/EO/US) Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Enclosed for filing in the above case are the following documents:

Return Postcard Transmittal Letter to the US Designated Office (DO/EO/US) (3 Pages)

Substitute Specification Consisting of: 47 Pages of Specification

3 Pages of Claims 1 Page Abstract

23 Pages Sequence Listing Sequence Listing Verification Statement Under 37 CFR 1.821(e)

Declaration (Unexecuted)

Information Disclosure Statement and PTO 1449

Copy of International Search Report and Written Opinion Copy of Published International Application WO 2005/049804 Deposit Account Authorization in the amount of \$400.00

Further, the Commissioner is authorized to charge Deposit Account No. 20-0778 for any additional fees required. The Commissioner is requested to credit any excess fee paid to Deposit Account No. 20-0778.

Respectfully submitted,

Heather C. Gorman

THOMAS, KAYDEN, HORSTEMEYER & RISLEY, L.L.P.

100 Galleria Parkway, N.W.

Suite 1750

Atlanta, Georgia 30339-5948

Our Docket No: 820701-1315

I hereby certify that all correspondences listed above are being deposited for delivery to the above addressee, with the United States Postal Service "EXPRESS MAIL POST OFFICE TO ADDRESSEE" service under 37 CFR §1.10 on the date indicated below:

The envelope has been given U.S. Postal Service "Express Mail Post Office To Addressee" Package # EV861588012US.

5/17/2006

Signature_ Name Allemanded

Laurie Delesandro